

Educational and Training Classifications

Occupations in this publication are classified into categories that describe the education and training needed by most workers to become fully qualified. The U.S. Bureau of Labor Statistics developed this classification system and assigned occupations into 1 of 11 categories. Some adjustments have been made by the Missouri Economic Research and Information Center's staff to reflect training requirements in Missouri. The education and training categories are:

(01) Professional Degree – Completion of a professional degree usually requires at least 6 years of full-time equivalent academic study, including college study prior to entering the professional degree program. Occupations in this category are:

32113 Chiropractors	32108 Optometrists
27502 Clergy	32517 Pharmacists
32105 Dentists	32102 Physicians and Surgeons
32199 Health Practitioners, NEC	32111 Podiatrists
28108 Lawyers	32114 Veterinarians

(02) Doctoral Degree – Completion of a doctoral degree program usually requires at least 3 years of full-time equivalent academic work beyond a bachelor's degree. Occupations in this category are:

31201 Agric Sciences Teachers, Postsecondary	31235 History Teachers, Postsecondary
31231 Anthrop/Sociology Teachers, Postsecond	31262 Home Economics Teachers, Postsecondary
31223 Architecture Teachers, Postsecondary	31244 Law Teachers, Postsecondary
31232 Area/Ethnic/Cultural Studies Teachers	31256 Library Science Teachers, Postsecondary
31218 Art/Drama/Music Teachers, Postsecondary	31202 Life Sciences Teachers, Postsecondary
24308 Biological Scientists	24399 Life Scientists, NEC
31242 Business Teachers, Postsecondary	31224 Math/Science Teachers, Postsecondary
31204 Chemistry Teachers, Postsecondary	25310 Mathematical Scientists
31213 Communications Teachers, Postsecondary	24311 Medical Scientists
31226 Computer Science Teachers, Postsecond	31258 Parks/Rec/Fitness Studies Teachers
31246 Criminal Justice/Law Enforce Teachers	31254 Philosophy/Religion Teachers, Postsecond
31233 Economics Teachers, Postsecondary	31209 Phys Science Teachers, Postsecond, NEC
31252 Education Teachers, Postsecondary	31206 Physics Teachers, Postsecondary
31222 Engineering Teachers, Postsecondary	31236 Political Science Teachers, Postsecondary
31214 English Lang/Lit Teachers, Postsecondary	31299 Postsecondary Teachers, NEC
31215 Foreign Lang/Lit Teachers, Postsecondary	31237 Psychology Teachers, Postsecondary
31234 Geography Teachers, Postsecondary	31239 Social Science Teachers, Postsecond, NEC
31211 Health Diagnostics Teachers, Postsecond	31247 Social Work Teachers, Postsecondary
31212 Health Specialties Teachers, Postsecondary	

(03) Master's Degree – Completion of a master's degree program usually requires 1 or 2 years of full-time equivalent study beyond a bachelor's degree. Occupations in this category are:

31514 Counselors, Vocation/Education	27108 Psychologists
31511 Curators/Archivists/Museum Technicians	27199 Social Scientists, NEC
31502 Librarians	27302 Social Workers, Medical/Psychiatric
25319 Mathematical Scientists, NEC	32314 Speech Pathologists/Audiologists
31114 Nursing Instructors	25312 Statisticians
25302 Operations Research Analysts	27105 Urban & Regional Planners
32308 Physical Therapists	

(04) Work experience, plus a Bachelor's Degree or higher – This category includes positions that generally require work experience in an occupation that requires a bachelor's degree or higher. Most jobs in this category are managerial with experience required in a related non-managerial position. Occupations in this category are:

28105 Adjudicators & Hearing Officers	19005 General Managers & Top Execs
13014 Administrative Services Managers	19002 Govt Chief Execs & Legislators
13011 Adver/Marketing/Promo/PR/Sales Mgr	13005 Human Resources Managers
34035 Artists & Commercial Artists	28102 Judges & Magistrates
34014 Broadcast News Analysts	21905 Management Analysts
15023 Communication/Transp/Utilities Mgrs	19999 Managers & Administrators, NEC
15005 Education Administrators	15008 Medical/Health Service Managers
13017 Engineer/Nat Sci/Computer Info Sys Mgrs	13008 Purchasing Managers
13002 Financial Managers	

(05) Bachelor's Degree – Completion of a bachelor's degree program usually requires 4 or 5 years of full-time academic work. Occupations in this category are:

21114 Accountants & Auditors	22127 Computer Engineers
25313 Actuaries	25105 Computer Programmers
22102 Aerospace Engineers	25199 Computer Scientists, NEC
22123 Agricultural Engineers	24302 Conservation Scientists/Foresters
24305 Agricultural/Food Scientists	15017 Construction Managers
97702 Aircraft Pilots/Flight Engineers	32311 Corrective/Manual Arts Therapists
22302 Architects, Exc Landscape/Naval	21902 Cost Estimators
21917 Assessors	21105 Credit Analysts
24108 Atmospheric & Space Scientists	63028 Criminal Investigators, Public Service
31508 Audio-Visual Specialists	25103 Database Administrators
21117 Budget Analysts	34038 Designers, Exc Interior
22114 Chemical Engineers	32521 Dietitians & Nutritionists
24105 Chemists	27505 Directors, Religious Activities/Education
22121 Civil Engineers	27102 Economists
21921 Claims Examiners Prop/Casual Insurance	22126 Electrical & Electronics Engineers

21508 Employment Interviewers	15011 Property/Real Est/Comm Assoc Mgrs
22199 Engineers, NEC	34008 Public Relations Specialists
31323 Farm/Home Management Advisors	21305 Purchasing Agents & Buyers, Farm
34032 Film Editors	21308 Purchasing Agts, Exc Whlsale/Retail/Farm
25315 Financial Analysts, Statistical	43011 Real Estate Appraisers
21199 Financial Specialists, NEC	27311 Recreation Workers
24111 Geologists/Geophysicists/Oceanographers	32317 Recreational Therapists
31117 Graduate Assistants, Teaching	27599 Religious Workers, NEC
21511 Human Res/Train/Labor Relations Specs	34011 Reporters & Correspondents
22128 Industrial Engineers, Exc Safety	27307 Residential Counselors
15014 Industrial Production Managers	22132 Safety Engineers, Exc Mining
31517 Instructional Coordinators	49002 Sales Engineers
43002 Insurance Sales Agents	43014 Securities/Finance Serv Sales Agents
21102 Insurance Underwriters	27305 Social Workers, Exc Medical/Psychiatric
34041 Interior Designers	21505 Special Agents, Insurance
22308 Landscape Architects	22311 Surveyors and Mapping Scientists
31111 Lecturers	25102 Systems Analysts
21108 Loan Counselors & Officers	21914 Tax Examiners/Collectors/Revenue Agents
21999 Management Support Workers, NEC	31399 Teachers & Instructors, NEC
22138 Marine Engineers	31305 Teachers, Elementary School
22105 Materials Engineers	31304 Teachers, Kindergarten
22135 Mechanical Engineers	31303 Teachers, Preschool
32902 Medical/Clinical Lab Technologists	31308 Teachers, Secondary School
22108 Mining Engineers, Inc Safety	31311 Teachers, Special Education
22117 Nuclear Engineers	34005 Technical Writers
32305 Occupational Therapists	32399 Therapists, NEC
24199 Physical Scientists, NEC	21302 Wholesale/Retail Buyers, Exc Farm
32511 Physician Assistants	34002 Writers & Editors
39999 Professional/Paraprofess/Techs, NEC	

(06) Associate's Degree – Completion of an associate's degree program usually requires at least 2 years of full-time academic study. Occupations in this category are:

24502 Biological/Agric Techs/Technologists	22508 Industrial Engineering Techs/Technols
32925 Cardiology Technologists/Technicians	28302 Law Clerks
24505 Chemical Techs/Technologists, Exc Health	28399 Legal Assistants, NEC
22502 Civil Engineering Techs/Technologists	25323 Mathematical Technicians
25104 Computer Support Specialists	22511 Mechanical Engineering Techs/Technols
32908 Dental Hygienists	32911 Medical Records/Health Info Technicians
32523 Dietetic Technicians	32905 Medical/Clinical Lab Technicians
22505 Elect & Electronic Techs/Technologists	32914 Nuclear Medical Technologists
22599 Engineering Techs/Technologists, NEC	66021 Occupational Therapy Assistants/Aides
39011 Funeral Directors & Morticians	28305 Paralegals & Legal Assistants
32999 Health Professionals/Paraprofess, NEC	24511 Petroleum Technicians/Technologists

66017 Physical Therapy Assistants/Aides
 24599 Physical/Life Science Technicians, NEC
 32913 Radiation Therapists
 32919 Radiologic Technicians/Technologists

32502 Registered Nurses
 32302 Respiratory Therapists
 32951 Veterinary Technologists/Technicians

(07) Vocational Education – Some vocational education programs last only a few weeks while others may last more than a year. In some occupations, a license is needed that requires passing an examination after completion of the training. Occupations in this category are:

85326 Aircraft Engine Specialists	22517 Estimators & Drafters, Utilities
85323 Aircraft Mechanics	85505 Frame Wirers, Central Office
85302 Auto Mechanics/Service Technicians	68005 Hairdressers/Hairstylists/Cosmetologists
68002 Barbers	89123 Jewelers & Silversmiths
34028 Broadcast & Sound Technicians	55102 Legal Secretaries
85502 Central Office/PBX Installers/Repairers	32505 Licensed Practical/Voc Nurses
85599 Communication Equip Mechanics, NEC	68008 Manicurists
25108 Computer Programmer Aides	55105 Medical Secretaries
55302 Court Reporters/Medical Trans/Stenos	34023 Photographers
34053 Dancers & Choreographers	32931 Psychiatric Technicians
85705 Data Processing Equip Repairers	85514 Radio Mechanics
22514 Drafters	43008 Sales Agents, Real Estate
85708 Electronic Home Entertain Equip Reprs	85726 Station Installers/Repairers, Telephone
85714 Electric Motor/Transform Repairers	32928 Surgical Technologists
85728 Electrical Installers/Reprs, Transp Equip	85508 Telegraph/Teletype Installers/Repairers
85717 Electronics Reprs, Commercial/Ind Equip	43021 Travel Agents
32508 Emergency Medical Techs/Paramedics	

(08) Work experience in a related occupation – Occupations in this category require skills and experience gained in a related position, developed from hobbies or other activities or from service in the Armed Forces. Many of these jobs are supervisory or managerial. Occupations in this category are:

93102 Aircraft Assemblers, Precision	81008 First Line Supervisors: Production/Opers
81099 Blue-Collar Worker Supervisors, NEC	81011 First Line Supervisors: Transportation
43005 Brokers, Real Estate	93108 Fitters, Structural Metal, Precision
97502 Captains, Water Vessels	15026 Food Service & Lodging Managers
21908 Construction, Building Inspectors	63005 Forest Fire Inspectors/Prev Specialists
89505 Custom Tailors & Sewers	21911 Inspectors & Compliance Officers
93114 Elec/Electronic Equip Assemblers, Prec	83002 Inspectors/Testers/Graders, Precision
93111 Electromechanical Equip Assemblers	83005 Inspectors/Testrs/Gradsr/Samplrs/Weighrs
61002 Fire Fighting/Prevention Supervisors	83099 Inspectors/Testers/Related, NEC
63002 Fire Inspectors	61008 Institution Cleaning Supervisors
72002 First Line Supervisors: Ag Serv, Forestry	31317 Instructors, Adult (Non-Voc Ed)
81005 First Line Supervisors: Construct/Extract	15032 Lawn Service Managers
81017 First Line Supervisors: Helpers/Laborers	97305 Locomotive Engineers
81002 First Line Supervisors: Mechanics/Repair	93105 Machine Builder Assemblers, Precision

41002 Marketing/Sales Supervisors	15002 Postmasters/Mail Superintendents
97505 Mates: Ship/Boat/Barge	93197 Precision Assemblers, Metal, NEC
15021 Mining & Related Managers	63035 Private Detectives/Investigators
53105 New Accounts Clerks, Banking	97308 Rail Yard Engineers/Dinkey Ops
25111 Numerical Tool/Process Control Progrms	97317 Railroad Brake/Signal/Switch Ops
15031 Nursery & Greenhouse Managers	97302 Railroad Conductors/Yardmasters
51002 Office/Admin Support Supervisors/Mgrs	61099 Service Supervisors/Mgrs, NEC
97508 Pilots, Ship	97521 Ship Engineers
63011 Police Detectives	31314 Teachers/ Instructors, Voc Ed/Training
61005 Police/Detective Supervisors	83008 Transportation Inspectors

(09) Long-term on-the-job training – This category includes occupations that usually require more than 12 months of on-the-job training or combined work experience and formal classroom instruction, such as apprenticeships and employer-sponsored training. Individuals undergoing training are usually considered employed in the occupation. Occupations in this category are:

34056 Actors/Directors/Producers	85723 Electric Powerline Installers/Repairers
39002 Air Traffic Controllers	85799 Electric/Electronic Equip Mechanics, NEC
79015 Animal Breeders	87202 Electricians
79016 Animal Trainers	85932 Elevator Installers & Repairers
34058 Athletes/Coaches/Umpires/Rel Workers	89128 Etchers/Engravers, Hand/Mach, Precision
85305 Automotive Body & Related Repairers	87905 Explosive Wkrs/Ord Hdlg Expts/Blasters
95023 Auxiliary Equipment Ops, Power	85321 Farm Equipment Mechanics
63023 Bailiffs	89717 Film Strippers, Printing
89135 Boilermakers	63008 Fire Fighters
87302 Brickmasons/Blockmasons	68026 Flight Attendants
85311 Bus/Truck/Diesel Engine Mechanics	89902 Foundry Mold/Core Makers, Prec
65023 Butchers & Meatcutters, Retail	89314 Furniture Finishers
89311 Cabinetmakers/Bench Carpenters	85944 Gas Appliance Repairers
89713 Camera Operators	95005 Gas Plant Operators
87102 Carpenters	87811 Glaziers
95008 Chemical Plant & System Ops	89126 Hand Workers, Jewelry, Precision
85947 Coin/Vending/Amuse Mach Servicers	87308 Hard Tile Setters
89702 Compositors/Typesetters, Precision	85902 Heating/AC/Refrig Mechanics/Installers
87311 Concrete Finish/Cement/Terrazzo Wkrs	85110 Industrial Machinery Mechanics
87941 Continuous Mining Mach Ops	89105 Instrument Makers, Precision
65028 Cooks, Institution/Cafeteria	53302 Insurance Adjustrs/Examnrs/Investigators
65026 Cooks, Restaurant	53305 Insurance Appraisers, Auto Damage
63017 Correctional Officers	89705 Job Printers
89921 Dental Lab Technicians, Precision	89117 Layout Workers, Metal, Precision
89707 Desktop Publishing Specialists	89719 Lithog/Photoengraving Occs, NEC
89911 Detail Design Decorators/Painters	85118 Mach Maint Mechanics: Water/Power
85711 Electric Home Appl/Power Tool Repairers	85119 Machinery Maintenance Mechanics, NEC
85911 Electric Meter Installers/Repairers	85116 Machinery Maint Mechanics: Marine

85113 Machinery Maint Mechanics: Sewing	63014 Police Patrol Officers
85112 Machinery Maint Mechanics: Textile	95028 Power Distributors/Dispatchers
85128 Machinery Maintenance Workers	95021 Power Generating Plant Operators
89108 Machinists	95026 Power Reactor Operators
85132 Maintenance Repairers, General Utility	85721 Power/Substation/Relay Electricians
85928 Mechanical Control Installers/Repairers	85905 Precision Instrument Repairers
85999 Mechanics/Installers/Repairers, NEC	89199 Precision Metal Workers, NEC
89923 Medical Appliance Makers	89799 Precision Printing Workers, NEC
85908 Medical Equipment Repairers	89599 Precision Textile Workers, NEC
85956 Menders/Garments/Linens/Related	89399 Precision Woodworkers, NEC
85123 Millwrights	89999 Precision Workers, NEC
87943 Mine Cutting/Channeling Mach Opers	89517 Pressers, Delicate Fabric
85117 Mine Machinery Mechanics	85317 Rail Car Repairers
85314 Mobile Heavy Equipment Mechanics	85935 Riggers
85938 Mobile Home Repairers	89715 Scanner Operators
89905 Molders/Shapers, Exc Jewelry/Foundry	63032 Sheriffs & Deputy Sheriffs
85308 Motorcycle Mechanics	89121 Shipfitters
34047 Music Directors/Singers/Related Workers	89511 Shoe/Leather Workers/Repairers, Precision
85921 Musical Instrument Repairers/Tuners	85511 Signal/Track Switch Maintainers
34051 Musicians, Instrumental	85328 Small Engine Mechanics
85926 Office Mach/Cash Register Servicrs	95032 Stationary Engineers
89917 Ophthalmic Laboratory Technicians	87305 Stonemasons
89706 Paste-Up Workers	87814 Structural Metal Workers
89114 Pattern & Model Makers, Metal	85702 Telephone/Cable TV Installers/Repairers
89302 Pattern/Model Makers, Wood	89102 Tool & Die Makers
89502 Patternmakers/Layout Wkrs, Fabric/Apparel	89111 Tool Grinders/Filers/Sharpeners
89908 Patternmakers/Model Makers/Rel Wkrs	63038 Transit & Railroad Police
89712 Photoengravers	89508 Upholsterers
95099 Plant & System Operators, NEC	85917 Watch Repairers
87317 Plasterers & Stucco Masons	95002 Water & Waste Treat Plant Opers
89718 Platemakers	93914 Welders & Cutters
87502 Plumbers/Pipefitters/Steamfitters	89308 Wood Machinists

(10) Moderate-term on-the-job training – Occupations in this category generally require 1 to 12 months of combined on-the-job experience and informal training before workers develop the skills needed for average job performance. Occupations in this category are:

87702 Air Hammer Operators	92525 Bindery Machine Setters/Opers
34021 Announcers, NEC	92926 Boiler Opers/Tenders, Low Pressure
34017 Announcers, Radio & TV	89721 Bookbinders
65021 Bakers, Bread & Pastry	55338 Bookkeeping/Accounting/Auditing Clerks
89805 Bakers, Manufacturing	97802 Bridge/Lock/Lighthouse Tenders
85951 Bicycle Repairers	53128 Brokerage Clerks
92546 Bindery Machine Operators	97108 Bus Drivers, Transit/Intercity

34026 Camera Opers, TV/Motion Picture/Video	39014 Embalmers
85914 Camera/Photographic Equip Repairers	93951 Engraving & Printing Workers, Hand
87602 Carpet Installers	97923 Excavation/Loading Mach Opers
87105 Ceiling Tile Installers/Acoustic Carpenters	87989 Extraction Workers, Exc Helpers, NEC
92956 Cement/Gluing Mach Opers/Tenders	91311 Extrude/Drawing Setters/Opers, M/P
57108 Central Office Operators	92971 Extrude/Form/Press Mach Opers/Tenders
92935 Chemical Equip Controllers/Opers	92968 Extruding/Form/Press Mach Setters/Opers
92938 Chemical Equipment Tenders	92708 Extruding/Forming Mach Opers/Tenders
21502 Claims Takers, Unemployment Benefits	87817 Fence Erectors
92958 Clean/Wash/Pickling Equip Opers/Tenders	63041 Fish & Game Wardens
92953 Coat/Paint/Spray Mach Opers/Tenders	87605 Floor Layers, Exc Carpet/Wood/Hard Tile
92951 Coat/Paint/Spray Mach Setters/Opers	89808 Food Batchmakers
91508 Comb Mach Tool Opers/Tenders, M/P	91317 Forging Machine Setters/Opers, M/P
91505 Comb Mach Tool Sttrs/Set-Up Opers, M/P	91914 Foundry Mold Assembly/Shakeout Wkrs
57199 Communication Equip Operators, NEC	91935 Furnace Operators & Tenders
56011 Computer Opers, Exc Peripheral Equip	92923 Furnace/Kiln/Oven/Drier/Kettle Opers
87899 Construction Trades Workers, NEC	97921 Gas Compressor Operators
87999 Construction/Extractive Workers, NEC	97917 Gas Pumping Station Operators
97951 Conveyor Operators/Tenders	97938 Grader/Bulldozer/Scraper Opers
92917 Cooking Mach Opers, Food/Tobacco	91114 Grinding Mach Setters/Opers, M/P
92928 Cooling/Freezer Equip Opers/Tenders	87803 Hazardous Materials Removal Workers
97944 Crane & Tower Operators	92305 Head Sawyer
92965 Crush/Grind/Mix Mach Opers/Tenders	91932 Heat Treat/Annealing/Temper Mach Opers
92944 Cutting/Slicing Machine Opers/Tenders	91938 Heaters, Metal/Plastic
92941 Cutting/Slicing Machine Setters/Opers	91928 Heating Equip Setters/Opers, M/P
92932 Dairy Process Equip Opers/Setters	97941 Hoist & Winch Operators
56021 Data Entry Keys, Composing	31321 Instructors/Coaches, Sports/Physical Train
56017 Data Entry Keys, Exc Composing	87802 Insulation Workers
49034 Demonstrators/Product Promoters	53311 Insurance Claims Clerks
66002 Dental Assistants	53308 Insurance Examining Clerks
57105 Directory Assistance Operators	53314 Insurance Policy Process Clerks
58005 Dispatchers, Exc Police/Fire/Ambulance	91105 Lathe/Turning Mach Setters/Opers, M/P
58002 Dispatchers: Police/Fire/Ambulance	87114 Lathers
97926 Dragline Operators	92726 Laundry/Drycleaning Mach Opers
97928 Dredge Operators/Dipper Tenders	92515 Letterpress Operators
91108 Drilling/Boring Mach Setters/Opers, M/P	97932 Loading Mach Opers, Mining
87108 Drywall Installers	85923 Locksmiths & Safe Repairers
87902 Earth Drillers, Exc Oil & Gas	97311 Locomotive Firers
32926 EKG Technicians	73008 Log Handling Equipment Operators
91921 Electro Plating/Coat Mach Opers, M/P	73011 Logging Tractor Operators
91917 Electro Plating/Coat Mach Setters/Opers	91321 Machine Forming Opers/Tenders, M/P
32923 Electroneurodiagnostic Technicians	92998 Machine Operators/Tenders, NEC
92902 Electronic Semiconductor Processors	92997 Machine Setters/Setup Opers, NEC

91117 Machine Tool Cutting Opers, M/P	92519 Printing Press Setters/Opers, NEC
97914 Main Line Station Engineers	92529 Printing Setters/Operators, NEC
97989 Material Moving Equip Opers, NEC	92549 Printing/Binding/Related Workers, NEC
66005 Medical Assistants	97953 Pump Operators
34044 Merch Displayers/Window Dressers	91302 Punching Mach Setters/Opers, M/P
91714 Metal Fabricators, Structural Metal	39008 Radio Operators
91911 Metal Mold/Core/Cast Mach Opers/Tndrs	97399 Rail Transportation Workers, NEC
91908 Metal Mold/Core/Cast Mach Setters	87714 Rail-Track Laying/Maint Equip Opers
93941 Metal Pourers/Casters, Basic Shape	85126 Refractory Material Repairers
92198 Metal/Plastic Mach Opers/Tenders, NEC	87314 Reinforcing Metal Workers
92197 Metal/Plastic Mach Setters/Opers, NEC	92921 Roasting/Dryng Opers/Tenders, Fd/Tob
91111 Milling/Planing Mach Setters/Opers, M/P	87908 Rock Splitters, Quarry
87949 Mining Mach Operators, NEC	91314 Rolling Machine Setters/Opers, M/P
49036 Models	87923 Roof Bolters, Mining
93944 Molders & Casters, Hand	87808 Roofers
97511 Motorboat Operators	49999 Sales & Related Workers, NEC
91926 Nonelectro Plating/Coat Mach Opers	43023 Sales Agents, Advertising
91923 Nonelectro Plating/Coat Mach Setters	43017 Sales Agents, Business Services
91502 Numerical Control Mach Opers, M/P	49008 Sales Reps, Mfg and Wholesale
92512 Offset Lithographic Press Opers	49005 Sales Reps, Scientific Products/Services
97956 Operating Engineers	43099 Sales Reps/Salespersons, Services NEC
32514 Opticians, Dispensing	92302 Sawing Mach Setters/Set-Up Opers
92974 Packaging/Filling Mach Opers/Tenders	91102 Sawing Mach Tool Setters/Opers, M/P
87402 Painters & Paperhangers	92308 Sawing Machine Opers/Tenders
92947 Painters, Transportation Equip	92524 Screen Printing Mach Setters/Opers
92914 Paper Goods Machine Setters/Opers	55108 Secretaries, Exc Legal or Medical
49014 Parts Salespersons	92962 Separating/Still Mach Setters/Opers
87708 Paving/Surfacing/Tamping Opers	87511 Septic Tank Servicers/Sewer Pipe Cleaner
56014 Peripheral Equipment Operators	92717 Sewing Machine Opers, Garment
67008 Pest Controllers Workers	92721 Sewing Machine Opers, Non-Garment
32518 Pharmacy Technicians	91308 Shear Mach Setters/Opers, M/P
92545 Photoengrav/Lithog Mach Opers/Tenders	87805 Sheet Metal Duct Installers
89914 Photographic Process Workers, Precision	89132 Sheet Metal Workers
87705 Pile Driving Equipment Operators	92723 Shoe Sewing Machine Opers/Tenders
87508 Pipelayers	89802 Slaughterers & Meat Packers
87505 Pipelaying Fitters	27308 Social/Human Service Assistants
91905 Plastic Mold/Cast Mach Opers/Tenders	91711 Soldering/Brazing Mach Opers/Tenders
91902 Plastic Mold/Cast Mach Setters/Opers	91708 Soldering/Brazing Mach Setters/Opers
89899 Precision Food/Tobacco Workers, NEC	92522 Specialty Material Printing Mach Setters
91305 Press Mach Setters/Opers, M/P	89514 Spotters, Dry Cleaning
92728 Pressing Mach Opers/Tenders, Textiles	79036 Sprayers/Applicators
92510 Print Press Machine Setters	55328 Statistical Clerks
92543 Printing Press Mach Opers/Tenders	97314 Subway & Streetcar Operators

22521 Surveying/Mapping Technicians	28308 Title Searchers
97905 Tank Car & Truck Loaders	39005 Traffic Technicians
87111 Tapers	97999 Transp/Material Move Equip Opers, NEC
21111 Tax Preparers	97899 Transportation Workers, NEC
57111 Telegraph/Teletype Operators	92541 Typesetting/Composing Mach Opers
49026 Telemarketers/Door Sales/Rel Workers	91702 Welding Mach Setters/Set-Up Opers
92714 Textile Bleach/Dye Mach Opers/Tenders	91705 Welding Machine Opers/Tenders
92705 Textile Machine Operators/Tenders	53502 Welfare Eligibility Workers
92702 Textile Machine Setters/Operators	92314 Woodwork Mach Opers/Tenders, Exc Saw
92911 Tire Building Machine Operators	92311 Woodworking Mach Setters, Exc Sawing
28311 Title Examiners & Abstractors	55307 Word Processors & Typists

(11) Short-term on-the-job training – In these occupations, workers can generally achieve average job performance in just a few days or weeks working with and observing experienced employees and by asking questions. Occupations in this category are:

53123 Adjustment Clerks	65017 Counter Attendants/Lunchroom/Cafeteria
59999 Admin Support/Clerical Occs, NEC	57311 Couriers & Messengers
53908 Advertising Clerks	53702 Court Clerks
79999 Agric/Forestry/Fishing Workers, NEC	53114 Credit Authorizers
66023 Ambulance Drivers/Attendants, Exc EMTs	53117 Credit Checkers
68014 Amusement/Recreation Attendants	63044 Crossing Guards
79017 Animal Caretakers, Exc Farm	55335 Customer Service Reps, Util
93956 Assemblers/Fab, Exc Mach/Elec/Prec	93926 Cutters & Trimmers, Hand
68023 Baggage Porters/Bellhops	65014 Dining Room/Cafeteria Attends/Bar Help
53102 Bank Tellers	97117 Driver/Sales Workers
65005 Bartenders	56005 Duplicating Machine Operators
53508 Bill & Account Collectors	93905 Electrical/Electronic Assemblers
55344 Billing/Cost/Rate Clerks	98313 Electricians/Related Helpers
56002 Billing/Posting Clerks/Mach Opers	67011 Elevator Operators
98311 Brick/Stone Mason Helpers	98323 Extractive Workers Helpers
97111 Bus Drivers, School	73002 Fallers & Buckers
93935 Cannery Workers	79021 Farm Equipment Operators
98312 Carpenters/Related Helpers	79858 Farm Workers, Farm/Ranch Animals
49023 Cashiers	79856 Farm Workers, Food/Fiber Crops
68038 Child Care Workers	55321 File Clerks
98905 Cleaners of Vehicles/Equipment	87608 Floor Sanding Machine Operators
67099 Cleaning/Building Service Workers, NEC	65041 Food Prep/Service Workers, Fast Food
93908 Coil Winders/Tapers/Finishers	65038 Food Preparation Workers
98319 Construction Trades Helpers, NEC	65011 Food Servers
65032 Cooks, Fast Food	65099 Food Service Workers, NEC
65035 Cooks, Short Order	79002 Forest & Conservation Workers
55317 Correspondence Clerks	98799 Freight/Stock/Movers, Hand, NEC
49017 Counter & Rental Clerks	68041 Funeral Attendants

93911 Glaziers, Manufacturing	68028 Other Transportation Attendants
79011 Graders/Sorters, Agric Products	98314 Painters/Paperhangers Helpers
93953 Grinders & Polishers, Hand	93947 Painting/Coating/Decorating Workers
63047 Guards	63021 Parking Enforcement Workers
68017 Guides	97808 Parking Lot Attendants
98902 Hand Packers & Packagers	55341 Payroll & Timekeeping Clerks
93999 Hand Workers, NEC	68035 Personal/Home Care Aides
66099 Health Service Workers, NEC	66026 Pharmacy Aides
98999 Helpers/Laborers/Movers, NEC	92908 Photographic Process Mach Opers
87711 Highway Maintenance Workers	98315 Plumbers/Related Helpers
66011 Home Health Aides	93928 Portable Machine Cutters
65002 Hosts/Hostesses: Restaurant/Lounge	57305 Postal Mail Carriers
53808 Hotel/Motel/Resort Desk Clerks	57308 Postal Service Clerks
55314 Human Res Assistants, Exc Payroll/Time	93921 Pressers, Hand
97947 Industrial Truck & Tractor Opers	55326 Procurement Clerks
55332 Interview Clerks, Exc Personnel	58008 Production/Planning/Expediting Clerks
53505 Investigators, Clerical	53911 Proofreaders & Copy Markers
67005 Janitors & Cleaners	63099 Protective Service Workers, NEC
79041 Laborers, Landscaping/Groundskeeping	79033 Pruners
53902 Library Assistants/Bookmobile Drivers	66014 Psychiatric Aides
31505 Library Technicians	53914 Real Estate Clerks
53708 License Clerks	55305 Reception & Information Clerks
53121 Loan & Credit Clerks	98705 Refuse/Recyclable Material Collectors
53111 Loan Interviewers	53805 Reservation & Transport Ticket Agents
79008 Log Graders & Scalers	49011 Retail Salespersons
93902 Machine Assemblers	98316 Roofers Helpers
98502 Machine Feeders & Offbearers	97514 Seamen, Able
67002 Maids & Housekeeping Cleaners	97517 Seamen, Ordinary & Maine Oilers
57302 Mail Clerks, Exc Mail Mach/Postal Serv	97805 Service Station Attendants
56008 Mail Mach Opers, Preparation/Handling	69999 Service Workers, NEC
58021 Marking Clerks	93923 Sewers, Hand
58099 Material Rec/Sched/Distr Workers, NEC	68011 Shampooers
93938 Meat/Poultry/Fish Cutters, Hand	58028 Shipping/Receiving/Traffic Clerks
98102 Mechanic & Repairer Helpers	93917 Solderers & Brazers
58014 Meter Readers, Utilities	53126 Statement Clerks
92905 Motion Picture Projectionists	98702 Stevedores, Exc Equip Operators
97199 Motor Vehicle Operators, NEC	49021 Stock Clerks, Sales Floor
53705 Municipal Clerks	58023 Stock Clerks: Stockroom/Warehouse
66008 Nursing Aides/Orderlies/Attendants	57102 Switchboard Operators
55347 Office Clerks, General	97114 Taxi Drivers & Chauffeurs
56099 Office Machine Operators, NEC	31521 Teacher Aides, Paraprofessional
55323 Order Clerks	53905 Teacher Aides/Educational Assistants
58026 Order Fillers, Wholesale/Retail	73099 Timber Cutting/Rel Log Workers, NEC

85953 Tire Repairers & Changers
53108 Transit Clerks
58011 Transportation Agents
53802 Travel Clerks
97102 Truck Drivers, Heavy
97105 Truck Drivers, Light

68021 Ushers/Lobby Attendants/Ticket Takers
79806 Veterinary Assistants
65008 Waiters & Waitresses
68032 Wardrobe & Dressing Room Attends
58017 Weighers/Measurers/Checkers